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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/698,310	10/31/2003		Tadashi Shimazaki	16UL02095	9803	
7	590	08/10/2005		EXAMINER		
Patrick W. Rasche Armstrong Teasdale LLP				JAWORSKI, FRANCIS J		
Suite 2600	Saaro BB1			ART UNIT	PAPER NUMBER	
One Metropoli	tan Square		3737			
St. Louis, MO 63102				DATE MAIL ED: 08/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

 		Application No.	Applicant(s)				
Office Action Summan		10/698,310	SHIMAZAKI, TADASHI				
Office Action	Summary	Examiner	Art Unit				
		Jaworski Francis J.	3737				
The MAILING DATE Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty. (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to comm	nunication(s) filed on 31 Oc	ctober 2003.					
2a) This action is FINAL	. 2b)⊠ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4a) Of the above claim 5) ☐ Claim(s) is/are 6) ☑ Claim(s) <u>1-18</u> is/are 7) ☐ Claim(s) is/are	 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 						
Application Papers							
Applicant may not requ Replacement drawing s	on <u>31 October 2003</u> is/are: est that any objection to the c sheet(s) including the correcti	r. a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj aminer. Note the attached Office	e 37 CFR 1.85(a). ected to. See 37 Cl	FR 1.121(d).			
Priority under 35 U.S.C. § 119	e						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	2.000	o.□	(PTO 445)				
 Notice of References Cited (PTC2) Notice of Draftsperson's Patent Information Disclosure Stateme. Paper No(s)/Mail Date 10-31-03 	Drawing Review (PTO-948) nt(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te	O-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3,5-11,13-15, 17-18 are rejected under 35 U.S.C. 102(b,e) as being anticipated by Clark ((US5980458) or in the alternative under 35 USC 103(a) as obvious based upon Clark in view of Bjaerum et al (US6537217).

Clark teaches a method and structure for interleaving among two or more packets and across frames as well, see col. 2 lines 35-56, col. 4 lines 30-43, col. 10 lines 14-28, col. 13 lines 33-43 and col. 14 top as exemplary, and in conjunction with parallel reception col. 14 bottom in order to remove artifact during low flow

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measurements. Since Clark embraces both conventional intra-frame interleave and inter-frame Doppler assemblage with the latter as an improvement over the former, the scope of disclosure embraces both modes. In the alternative, it would have been

obvious in view of Bjaerum et al to practice Doppler data assemblage across multiple

frames since this was heretofore known as a 'sliding window' technique, see fig. 7 and

attendant discussion col. 7 line 37 - col. 8 line 15.

Claims 4, 12 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clark alone or further in view of Bjaerum et al as applied to claims above, and

further in view of Okunuki et al (US5\$460179). Since the latter in col. 2 lines 1-21

evidences that it was known to acquire scans by use of electronic scanning in concert

with mechanical scanning (reflected in its PTO subclass 600/444 combined electrical

and mechanical scanning classification) merely as a convenience to access vascular

portions for which bloodflow information is desired, it would have been obvious to

incorporate combined electrical and mechanical scanning into Clark alone or as

modified by Bjaerum et al.

Sakaguchi et al (US2005/0004462 A1) is cited as of interest for cross-frame

rasterizing of Doppler data.

Any inquiry concerning this communication should be directed to Jaworski

Francis J. at telephone number 571-272-4738.

FJJ:fii

08-05-2005

Primary Examiner